

**Model 93LF BOM-style material declaration. BI Technologies Corporation**

8/17/2010

No content here is banned per E.U. R.o.H.S.. Average mass of 93LF trimmer is 1.4 grams each. Prepared by Eric Arnold (714) 447-2565  
Weights above 1 milligram rounded to the nearest mg. Values less than 1 milligram given in scientific notation.

Sub-component	Material	% of total mass	Substance name	CAS #	Substance Weight (grams)	Special classification			
Housing	PBT blend	28.4%	PBT	26062-94-2	0.302				
			Fiberglass	65997-17-3	0.080				
			Carbon black	1333-86-4	0.004				
			Sb	7440-36-0	0.004				
			SbO	1309-64-4	0.012	Fire retardant			
Rotor	PBT blend	11.8%	PBT	26062-94-2	0.112				
			Fiberglass	65997-17-3	0.050				
			SbO	1309-64-4	0.005				
Contact	Cu alloy wire	0.10%	Cu	7440-50-8	7.54E-04				
			Zn	7440-66-6	3.70E-04				
			Ni	7440-02-0	2.47E-04				
	Nickel alloy bar	0.07%	Cu	7440-50-8	5.00E-07				
			Ni	7440-02-0	8.46E-04				
			C	7440-44-0	6.00E-07				
			Mn	7439-96-5	2.50E-06				
			Fe	7439-89-6	1.50E-04				
			S	7704-34-9	5.00E-08				
			Si	7440-21-3	5.00E-07				
Terminals	Cu wire	9.5%	Cu	7440-50-8	0.134				
	Sn plating	0.31%	Sn	7440-31-5	4.37E-03				
Potting	Epoxy	18.3%	SiO2, amorphous	7631-86-9	0.013				
			modified aliphatic polyamine	trade secret	0.052				
			hydantoin epoxy resin	15336-82-0	0.013				
			epichlorohydrin / polyglycol epoxy resin	26142-30-3	0.013				
			epichlorohydrin/bisphenol A epoxy resin	unknown	0.155	BPA			
			cycloaliphatic epoxy resin	2386-87-0	0.013				
			Substrate	Alumina	31.6%	Al2O3	1344-28-1	0.430	
SiO2, amorphous	7631-86-9	0.004							
TiO2	13463-67-7	0.002							
FeO2	1345-25-1	0.002							
MnO2	1313-13-9	0.004							
MgO	1309-48-4	0.002							
CaO	1305-78-8	0.002							
Conductor	AgPd thick film	0.04%				Al2O3	1344-28-1	3.73E-06	
			SiO2, amorphous	7631-86-9	1.63E-05				
			TiO2	13463-67-7	3.73E-06				
			PbO	1317-36-8	2.23E-05	Pb in electronic ceramic (RoHS exempt)			
			ZnO	1314-13-2	4.05E-06				
			B2O3	1303-86-2	1.37E-06				
			ZrO2	1314-23-4	3.30E-07				
			BaO	1304-28-5	4.23E-06				
			Ag	7440-22-4	4.44E-04				
			Pd	7440-05-3	4.95E-05				
			Resistor	Ruthenate thick film	0.04%	Al2O3	1344-28-1	6.64E-06	
						SiO2, amorphous	7631-86-9	5.58E-05	
TiO2	13463-67-7	6.64E-06							
MnO2	1313-13-9	3.00E-06							
PbO	1317-36-8	1.46E-04				Pb in electronic ceramic (RoHS exempt)			
ZnO	1314-13-2	1.60E-05							
B2O3	1303-86-2	1.87E-05							
ZrO2	1314-23-4	4.48E-06							
BaO	1304-28-5	7.55E-06							
Ag	7440-22-4	1.80E-05							
Pd	7440-05-3	2.30E-05							
Steatite	14807-96-6	1.00E-06							
Bi2Ru2O6	unknown	2.25E-05							
Pb2Ru2O6+x	unknown	1.60E-04				Pb in electronic ceramic (RoHS exempt)			
RuO2	12036-10-1	1.05E-05							